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EDUCATION

- 1993 UNIVERSITY OF CALIFORNIA, Berkeley, CA
M.A., Energy and Resources Group.
Interdisciplinary energy analysis and environmental studies, with emphasis on energy-efficiency policy analysis.
Master's Project: "The Achievable Potential for Electricity-Efficiency Improvements in U.S. Residences."
- 1986 PRINCETON UNIVERSITY, Princeton, NJ
B.S.E., Cum Laude, Engineering and Management Systems.
Coursework in operations research and management science, with emphasis on computer applications of mathematical models.
Honors: Air Force ROTC 4-year scholarship.

EMPLOYMENT

- 1991-Present Lawrence Berkeley National Laboratory, Energy Analysis Department.
Scientist (2002-present) and assistant group leader / Staff Research Associate (1996-2002) / Principal Research Associate (1994-96) / Senior Research Associate (1991-94).
Analyze markets and energy savings potential for energy-efficient products; advise U.S. Environmental Protection Agency and U.S. Department of Energy on the design of programs; evaluate energy savings impact of programs. Collect primary and secondary data, build and run energy models, prepare technical reports. Manage 3-6 technical staff; interact with clients to determine needs and plan analyses.
- Major accomplishments:
- Initiating LBNL technical support to the U.S. EPA's ENERGY STAR program and helping to manage the growth of that project from one to ten full-time staff members.
 - Managing the technical and content development of the Home Energy Saver (hes.lbl.gov), Home Energy Advisor (advisor.lbl.gov) and 20% Solution (savepower.lbl.gov) web sites -- developed by LBNL to help consumers make their homes more energy efficient.
 - Leading a team that estimated the carbon dioxide and energy bill savings potential of the ENERGY STAR programs, a summary of which was quoted by President Clinton when he announced the U.S. climate change policy in October, 1997.
 - Publishing the most comprehensive historical analysis of electricity use in California leading up to the 2001 power crisis (2002).

- Developing packages of energy efficiency measures for production home builders to use to participate in the ENERGY STAR new homes program.
- Developing a geographic information system-based model to estimate regionally disaggregated impacts of energy efficiency policies, and using the model to advise EPA on the design of its ENERGY STAR program.
- Estimating the achievable potential for electricity efficiency improvements in the U.S. residential sector in 1993.

1986-1990	U.S. Air Force, Space Systems Division, El Segundo, CA. First Lieutenant; Job title: Project Engineer. Managed and performed satellite design and feasibility studies, large-scale computer simulations, and satellite cost modeling. Communicated findings in technical reports and oral presentations for General officers and civilian Department of Defense decision-makers.
1994-1997	Community Energy Services Corporation, Berkeley, CA. Secretary/Treasurer (volunteer) of a non-profit that provides energy efficiency retrofits for municipal facilities and low-income residences.
Feb-Mar 1999	Consultant to Central Maine Power Company, Load Forecasting Group Reviewed and updated residential unit energy consumption data for end-use demand forecasting model.
Oct-Nov 1994	Consultant to Hong Kong Government, Electrical and Mechanical Services Department. Trained staff on U.S. experience with building-sector demand-side management technologies and policies.
May-Aug 1992	Intern in Environmentally-Compatible Energy Strategies Group, International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria.

AWARDS

2001	LBNL outstanding performance award for important role in developing the 20% Solution web site to help consumers participate in the CA 20/20 Rebate program.
1999	LBNL SPOT award for outstanding efforts in preparation of the Home Energy Saver web site.
1996	LBNL outstanding performance award for lead role in establishing project to provide technical support to U.S. EPA's ENERGY STAR programs.
1990	U.S. Air Force Meritorious Service Medal for outstanding contributions to project (usually awarded to officers with 10-15 years of military service).
Computer Skills:	<i>Languages:</i> Perl, APL, BASIC, HTML. Spreadsheet, graphics, GIS, and statistical applications on Mac, Windows, and Unix.
Foreign Languages:	Working knowledge of Spanish

Richard Brown is a Scientist in the Environmental Energy Technologies Division at Lawrence Berkeley National Laboratory. He holds an M.A. degree from the Energy and Resources Group at the University of California at Berkeley, and a B.S.E. in Engineering and Management Systems from Princeton University. During his tenure at LBNL, he has worked on several projects analyzing energy use in buildings. These include residential supply curves of conserved energy, the REEPS energy end-use forecasting model, the use of geographical information systems for regionally-disaggregated energy analysis, developing packages of energy efficiency measures for new homes, and analyzing electricity use in California. His current research interests include technical support to the ENERGY STAR program, analyzing the energy use and characteristics of office equipment and miscellaneous equipment in commercial buildings, and developing a home energy audit web site (the ENERGY STAR Home Energy Advisor, advisor.lbl.gov/). Before joining the LBNL staff, he spent four years in the Air Force analyzing the cost and performance of satellite systems.